

REMARKS

This Reply, filed in response to the Office Action mailed August 25, 2008, is believed to address all issues raised in the Action. Favorable reconsideration of the application is respectfully requested in view of Applicants' amendments and remarks herein.

Claim Amendment and Status

In the Amendment, claims 1 and 3 are amended to improve their wording and to more clearly set forth the claimed subject matter of the present invention. Support for the amendment to claim 1 may be found on page 5 of the specification. Claims 2 and 4 are amended to improve their form.

Upon entry of the Amendment, which is respectfully requested, claims 1-10 will be pending in the application, with claims 5-10 being withdrawn from consideration.

Formal Matters

Applicants thank the Examiner for considering the references submitted in the two IDS's and returning initialed copies of the SB/08 forms submitted on February 18, 2005 and August 7, 2006.

Response to Rejection under 35 U.S.C. § 112, second paragraph

On page 2 of the Office Action, claim 3 is rejected under 35 U.S.C. § 112, second paragraph as being indefinite. The Examiner notes that claim 3 recites "a fluid" twice and expresses concern that it is not clear if the claim includes two fluids or a single fluid. Applicants have amended claim 3 by replacing "a" with "the" in front of the second recitation of fluid. Thus, claim 3 only includes one fluid. The amendment is believed to address the Examiner's concern. Reconsideration and withdrawal of the rejection is kindly requested.

Response to Rejection under 35 U.S.C. § 102

On page 2 of the Office Action, claims 1-2 are rejected under 35 U.S.C. § 102(b) as being anticipated by Orlando et al. (US 4,328,967). The Office alleges that Orlando discloses a method of introducing a plastic raw material liquid into a casting polymerization mold.

The Examiner asserts that Orlando's method includes positioning a plurality of liquid delivery units each for intermittently drawing in and discharging a fluid at a constant rate, parallel to each other, and discharging flows of the plastic raw material liquid at different times from the liquid delivery units. Per the Examiner, the method combines the flow of the plastic raw material liquid discharged from the liquid delivery units with each other, and introduces the combined plastic raw material liquid into a casting polymerization mold.

Applicants respectfully traverse.

The present invention is characterized by positioning a plurality of liquid delivery units parallel to each other, each for intermittently drawing in and discharging a fluid at a constant rate, and discharging flows of the plastic raw material liquid, at different times from each other, from the liquid delivery units.

When the flow of the plastic raw material liquid is discharged from the liquid delivery units and combined at different times from each other, the pulsations of the discharge pressure are combined out of phase with each other, and hence the pulsations are reduced by interfering with each other, thereby averaging the discharge pressure. Therefore, air bubbles produced when the plastic raw material liquid is discharged from the inlet nozzle are reduced, resulting in an increased production yield.

Applicants respectfully submit that the Office mischaracterizes the teachings of Orlando. Orlando relates to the manufacture of bowling balls and, more specifically, to lightweight

bowling balls. Orlando discloses a two piston proportioning pump, with the two pistons parallel to each other, that pumps at a constant-rate to expel and mix predetermined quantities of different thermosetting resins which form the outer shell of bowling balls.

However, it is apparent that the two pistons, of the two piston proportioning pump, are parallel and connected to each other. (See Fig. 1 of Orlando). Therefore, the two pistons move at the same time and expel different resins to the mold at the same time.

Thus, Orlando does not disclose or suggest any technical idea disclosing a plurality of liquid delivery units, positioned parallel to each other, drawing in and discharging a fluid at different times from each other.

In view of the above, the 35 U.S.C. § 102 (b) rejection of claims 1 and 2 is believed to be unsustainable and withdrawal is respectfully requested.

Response to Rejections under 35 U.S.C. § 103

In paragraph 9 of the Office Action, claim 3 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Orlando as applied to claim 1 above, and in view of Stieger et al. (5,159,828).

Applicants submit that claim 3, which directly depends from claim 1, is patentable for the same reasons that claim 1 is patentable over Orlando alone as discussed in reference to the anticipation rejection above. Stieger fails to make up for the deficiencies of Orlando, therefore the 35 U.S.C. § 103 rejection of claim 3 is believed to be unsustainable and withdrawal is respectfully requested.

In paragraph 10 of the Office Action, claim 4 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Orlando as applied to claim 1 above, and in view of Petschner (5,032,267).

Applicants submit that claim 4, which directly depends from claim 1, is patentable for the same reasons that claim 1 is patentable over Orlando as discussed in reference to the anticipation rejection above. Petschner fails to make up for the deficiencies of Orlando, therefore the 35 U.S.C. § 103 rejection of claim 4 is believed to be unsustainable and withdrawal is respectfully requested.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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Date: November 25, 2008